SEQUENCE LISTING

<110> Oberdoerffer, Philipp
Kanellopolou, Chrysi

<120> SYSTEMS AND METHODS FOR SHORT RNA EXPRESSION

<130> 10861-034US1

<150> PCT/US2005/003104
<151> 2005-01-21

<150> US 60/538,871
<151> 2004-01-22

<160> 22

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 623
<212> DNA
<213> Synthetic U6-STOP-shA1 construct

<400> 1
tccgacgccg ccatctctag gcccgcgccg gccccctcgc acagacttgt gggagaagct 60
cggctactcc cctgccccgg ttaatttgca tataatattt cctagtaact atagaggctt 120
aatgtgcgat aaaagacaga taatctgttc tttttaatac tagctacatt ttacatgata 180
ggcttggatt tctataagag atacaaatac taaattatta ttttaaaaaa cagcacaaaa 240
ggaaactcac cctaactgta aagtaattgt gtgttttgag actataactt cgtatagcat 300
acattatacg aagttattac gtttttgcga tttttgaatt cgttcctcag aggaactgac 360
aagcacccta acatcctatt ggaggctcac tcacgttttt tctattttgt ttcttgacag 420
cagagctcgt tgctcactgt atagctcagg ttggcctgac actgatgagg ttctccagtg 480
actgcctcta cctacctact gggatgacag aggtgtacca ccaagccacg cccgggggat 540
ccataacttc gtatagcata cattatacga aggaaatgct ctttctcctc aaagctttga 600
ggagaaagag catttccctt ttt 623

<210> 2
<211> 282
<212> DNA
<213> Artificial Sequence

<220>

<223> Functional units of the U6-STOP-shA1 construct

<400> 2
tccgacgccg ccatctctag gcccgcgccg gccccctcgc acagacttgt gggagaagct 60
cggctactcc cctgccccgg ttaatttgca tataatattt cctagtaact atagaggctt 120
aatgtgcgat aaaagacaga taatctgttc tttttaatac tagctacatt ttacatgata 180
ggcttggatt tctataagag atacaaatac taaattatta ttttaaaaaa cagcacaaaa 240
ggaaactcac cctaactgta aagtaattgt gtgttttgag ac 282

<210> 3
<211> 5
<212> DNA

<213> Artificial Sequence

<220>
<223> U6 promoter of TATA box

<400> 3
tataa 5

<210> 4
<211> 34
<212> DNA
<213> Unknown

<220>
<223> Wild type of loxP sequence

<400> 4
ataacttcgt atagcataca ttatacgaag ttat 34

<210> 5
<211> 225
<212> DNA
<213> Artificial Sequence

<220>

<223> Stop casete sequence includes U6 po1 III
termination

<400> 5
tacgtttttg cgatttttga attcgttcct cagaggaact gacaagcacc ctaacatcct 60
attggaggct cactcacgtt ttttctattt tgtttcttga cagcagagct cgttgctcac 120
tgtatagctc aggttggcct gacactgatg aggttctcca gtgactgcct ctacctacct 180
actgggatga cagaggtgta ccaccaagcc acgcccgggg gatcc 225

<210> 6
<211> 212
<212> DNA
<213> Artificial Sequence

<220>

<223> genomic U6 PolIII termination sequence

<400> 6
tttttgaatt cgttcctcag aggaactgac aagcacccta acatcctatt ggaggctcac 60
tcacgttttt tctattttgt ttcttgacag cagagctcgt tgctcactgt atagctcagg 120
ttggcctgac actgatgagg ttctccagtg actgcctcta cctacctact gggatgacag 180
aggtgtacca ccaagccacg cccgggggat cc 212

<210> 7
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> the mutant second *loxP* site downstream of the STOP

cassette

<400> 7
ataacttcgt atagcataca ttatacgaag gaaa 34

<210> 8
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 8
ggacctccat ctgctcttat tt 22

<210> 9
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 9
ggtctattac tgtgcaagtt gg 22

<210> 10
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 10
tgtgaattcg ttcctcagag gaactga 27

<210> 11
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 11
tgtggatccc ccgggcgtgg cttggtggta cacctc 36

<210> 12
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 12
gactctagat ccgacgccgc catctctag 29

<210> 13
<211> 85
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 13
tgcgaattca aaaatcgcaa aaacgtaata acttcgtata agtatgctat acgaagttat 60
agtctcaaaa cacacaatta cttac 85

<210> 14
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 14
tgctcgagat gtctgagtac gagttcatgc atatc 35

<210> 15
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 15
ctggatcctt atttcagcag gaacagcatc tcccatatct g 41

<210> 16
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 16
ctggatcctt acttgaggag aaagagcatt tc 32

<210> 17
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 17

<400> 17
ttcctaataa cccagccttt g 21

<210> 18
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 18
gtgatggcag gagatttgta a 21

<210> 19
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 19
cattaactgg ggaaggattg tgac 24

<210> 20
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 20
gcagaaaagt cagccagcca gatt 24

<210> 21
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 21
caagagggag agcaagccta 20

<210> 22
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 22
cgtctcaggc cttcagtgag 20